II. INTERSECTION OPERATION

The intersection currently operates in a NEMA four (4) phase, full-traffic-actuated mode. The MD 97 through movements operate concurrently with a concurrent audible pedestrian movement across the west leg of the intersection. The Cars Mill Road/McKendree Road through movements operate concurrently with an actuated pedestrian movement across the north leg of the intersection.

The existing cabinet/controller to be utilized. Video detection equipment, and audible pedestrian equipment to be install at this location.

CONTACT LIST

The contact persons for District •7 are as follows:

Mr. John Concannon Assistant District Engineer - Traffic 301-624-8140

Mr. Andrea Abend Assistant District Engineer - Utility 301-624-8115

Mr. Ray Jackson Assistant District Engineer - Maintenance 301-624-8105

Mr. Richard L. Daff Chief, Traffic Operations Division 410-787-7630

Mr. Ed Rodenhizer Office of Traffic Signal Shop Operations 410-787-7652

As-built for S.H.A. [on CADD].

And the second

EQUIPMENT LIST

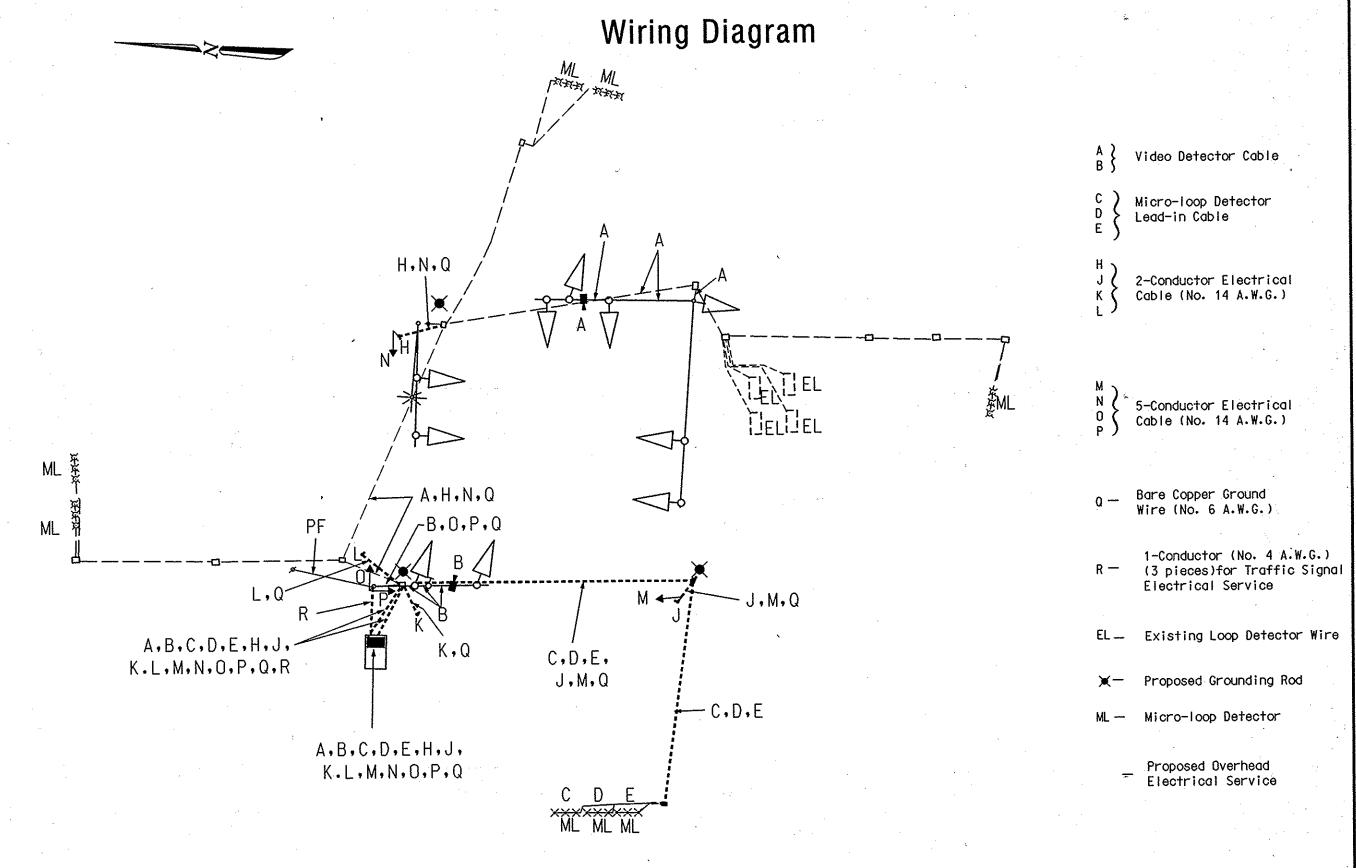
Equipment to be furnished and installed by the Contractor.

All equipment in this list shall have catalog cuts submitted for approval prior to installation.

Quantity	Units	Specification Section	Description	Quantity	Units	Specification Section	Description
2	EA	818	5 ft. steel pedestal pole for pushbutton assembly with break away transformer base.	Lump Sum	LS	108	Mobilization.
2	EA	818	10 ft. steel pedestal pole with break away transformer base	Lump Sum	LS	104	Maintenance of traffic.
1	ĒA	814	16 in., two-way, one section (LED) (countdown indications) adjustable pedestrian signal	4	EA	205	Test Pit.
,	head with pole moun		head with pole mounting hardware and cut-away visors.	2	EA	811	Handhole.
2	EA	814	16 in., one way, one section (LED) (countdown indications) adjustable pedestrian signal head with post top mounting hardware.	85	· LF	815	Sawcut for signalloop detector.
1	EA		Central control unit for audible pedestrian pushbuttons.	50	LF	810	1-conductor electrical cable (No. 4 A.W.G.).
1	EA	anh vair 184	Video Detector Interface Panel.	325	LF	810	2-conductor electrical cable (No. 14 A.W.G.).
2	EΑ	, 	Video Detection Camera and cable	325	LF	810	5-conductor electrical cable (No. 14 A.W.G.).
			(1- 300 LF, 1- 100 LF)	125	LF	804	Bare copper stranded ground wire (No. 6 A.W.G.).
1	EA	813	30 in. x 36 in. R 3-5(R) sign for most arm mounting.	15	LF	805	1 in. liquid tight flexible non-metallic conduit for loop detector sleeve.
1	EA	813	30 in. x 36 in. R 3-5(L) sign for most arm mounting.	170	LF	805	2 in. polyvinyl chloride [Schedule 80] electrical conduit - trenched.
1,	EA	813	24 in. x 51 in. Shield Assem sign with ground mounting hardware. 9 in. x 15 in. R10-4(1) MOD pedestrian education sign.	20	LF	805	4 in. polyvinyl chloride [Schedule 80] electrical conduit - trenched.
4	EA	817 817	APS (audible Pedestrian Signal) pushbutton station and sign.	80	LF	805	4 in. polyvinyl chloride [Schedule 80] electrical conduit - bored.
4	EA	01/	Micro-loop probe (set of 3) with 500 ft. lead-in cable.	5.5	CY	801	Concrete foundation for traffic signal equipment.
3	EA		MICTO-100P Probe tset of 37 with 500 ft. ledd in cable.	3	EA	804	Ground rod -¾in. diameter x 10 ft. length.
				. 1	EA		Relocate existing ground mounted sign.
	,			1	EA		2 in PVC elbow in existing pole base.
				Lump Sum	LS		Remove and dispose of existing signal equipment.
				Lump Sum	LS		Relocate existing cabinet and rerun cables to new cabinet location.

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	5 /					<u> </u>	1	.1		<u> </u>			<u> </u>			·
			Flashing Operation	FL/Y	FL/Y	FL/Y	FL/Y	FL/Y	FL/R	FL/R	FL/R	FL/R	FL/R	DARK	DARK	→ → → → → → →
			Alt 4 & 8 Change	R	R	R	R	R	Y	Y	Υ	Y	Y	DW	DW	0
			Ped Clearance	R	R	R	r R	R	G	G	G	G	G	DW	FL/DW	
			4 & 8 Change Phase Ait 4 & 8	R	R	R	R	R	G	G	G	G	G	DW	WK	Ŷ l
			Phase 4 & 8	R	R	R R	R R	R	G Y	G Y	Υ	Y	Y	DW	DW	
			2 & 6 Change	Y	Y	· Y	Y	Y	R	R	R G	R G	R	DW	DW DW	00
			Ped Clearance	G	G	G	G	G	R	R	R	R	R	FL/DW	DW	>
	,		Phase 2 & 6	G	G	G	G	G	R	R	R	R	R	WK	DW	4
				(R) (G)	R	R Y G	R Y G	R Y G	A Y G	R Y 6	R Y G	R Y G	R Y 6	*IO	*10	
·				. 1	2	3	4	5	6	7	8	9	10	11.12	13,14	•

Phase Chart



SHA

STATE OF MARYLAND
DEPARTMENT OF TRANSPORTATION
STATE HIGHWAY ADMINISTRATION
OFFICE OF TRAFFIC & SAFETY
TRAFFIC ENGINEERING DESIGN DIVISION

MD 97 (Roxbury Mills Road) at Carrs MIII Road/McKendree Road

TEAM LEADER DESIGNED BY Frank Hoeckel COUNTY Howard DRAWN BY Frank Hoeckel LOGMILE 13009705.10	,							
TEAM LEADER DESIGNED BY Frank Hoeckel COUNTY Howard DRAWN BY Frank Hoeckel LOGMILE 13009705.10	APPROVALS	REVISIONS	GENERAL INFORMATION PLAN					
DESIGNED BY Frank Hoeckel COUNTY Howard DRAWN BY Frank Hoeckel LOGMILE 13009705.10	: : : : : : : : : : : : : : : : : : :		SCALE N/A DATE Nov. 27, 2006 CONTRACT NO. BW-996M82					
	TEAM LEADER							
	ASST. DIV. CHIEF		11.007					
CHECKED BY T.I.M.S. NOH-823 DIVISION CHIEF F.A.P. NOAC-STPG-0005(691) E TOD NO 3744 C	DIVISION CHIFF							
			DRAWING NO. TS -3744C GI SHEET NO. 2 OF 2					

- DRILL

DRILL HOLES